



# Pavement Management Plans Create an Executable Asset Management Strategy

May 2, 2023, 1:00 p.m.



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MISSION  
SUCCESS  
STARTS  
HERE  
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MAY  
2-4  
2023

San Antonio,  
TEXAS



# SPEAKER



## Cecil Hastings

US Air Force Civil Engineer Center

Civil Engineer – Pavement  
Management Plans

### Fun Facts

- Professional Engineer states AL and FL
- AF 1982 – 1986
- State of Alabama, 20 years
- Enjoys Traveling



**2023**

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2023

San Antonio,  
TEXAS



# SPEAKER



## Pat Kelly

US Air Force Civil Engineer Center

Transportation Branch Chief

### Fun Facts

- Sports Teams
- Retired US AF Engineer Officer
- Enjoys Golfing

**SESSION (1:00 p.m.):  
FACILITY & INFRASTRUCTURE  
ASSET MANAGEMENT**



U.S. DEPARTMENT OF STATE  
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**Pavement Management Plans Create an  
Executable Asset Management Strategy**

May 2, 2023

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# **Poll Question 1**

## **Understanding our audience poll question:**

① Start presenting to display the poll results on this slide.

# Air Force Installation & Mission Support Center



## Pavement Management Plans Create an Executable Asset Management Strategy

Patrick Kelly / Cecil Hastings

AFCEC/COAT

2 May 2023

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# Classification



“The classification of the brief is **UNCLASSIFIED** and the discussion can go up to **UNCLASSIFIED**”

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# Purpose



The purpose of the briefing is to provide a comprehensive overview of how **asset management principles** are applied through the development and use of **Pavement Management Plans (PMPs)** in support of the CE enterprise to identify and validate requirements that **optimize the use of our limited resources** on the right requirement, at the right time, at the lowest life-cycle cost to the AF

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- **Objective 1: Understand Air Force efforts to develop Pavement Mgt plans**
  - Why - How?
- **Objective 2: Understand the processes used to identify mission requirements and resource constraints**
  - What do you have? Inventory...Condition
  - What needs to be done?
  - What capabilities exist / limiting factors?
- **Objective 3: Understand the development of base unique pavement maintenance strategies**
  - How do I build a plan?
  - How do I implement the plan?
- **Objective 4: Comprehend the Tableau Pavement Tool used to support the PMP effort**

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# Objective 1

## Why?



Understand Air Force efforts to develop Pavement Management plans: **Why?**

- **AFI 32-1041 & TSPWG 3-270-08.14-3** require all AF Installations to develop PMP and execute M&R plans for both airfields and roads and parking
- Air Force began effort in 2019 and have completed 22 of 64 bases so far
- AFCEC PMP program assists bases w/ development of PMP for FYDP+2 Major M&R & 3-5 yr Sustainment plan
  - **Requires participation of all key stakeholders**
  - **Uses available tools/reports (PAVER, PCI/APE reports, Tableau...)**
  - **Reviews ramp space available versus mission requirements for divestiture opportunities**
  - **Develops maintenance strategies that meet base needs**
  - **Outlines Shop and budgeting (EXPLAN, BCAMP, etc) requirements**

AFI-Air Force Instruction, TSPWG-Tri-Service Pavements Working Group, FYDP-Future Years Defense Program, PCI-Pavement Condition Index, APE-Airfield Pavement Evaluation, EXPLAN-Decentralized Funding, BCAMP-Base Consolidated Asset Management Plan

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# Objective 1 How?

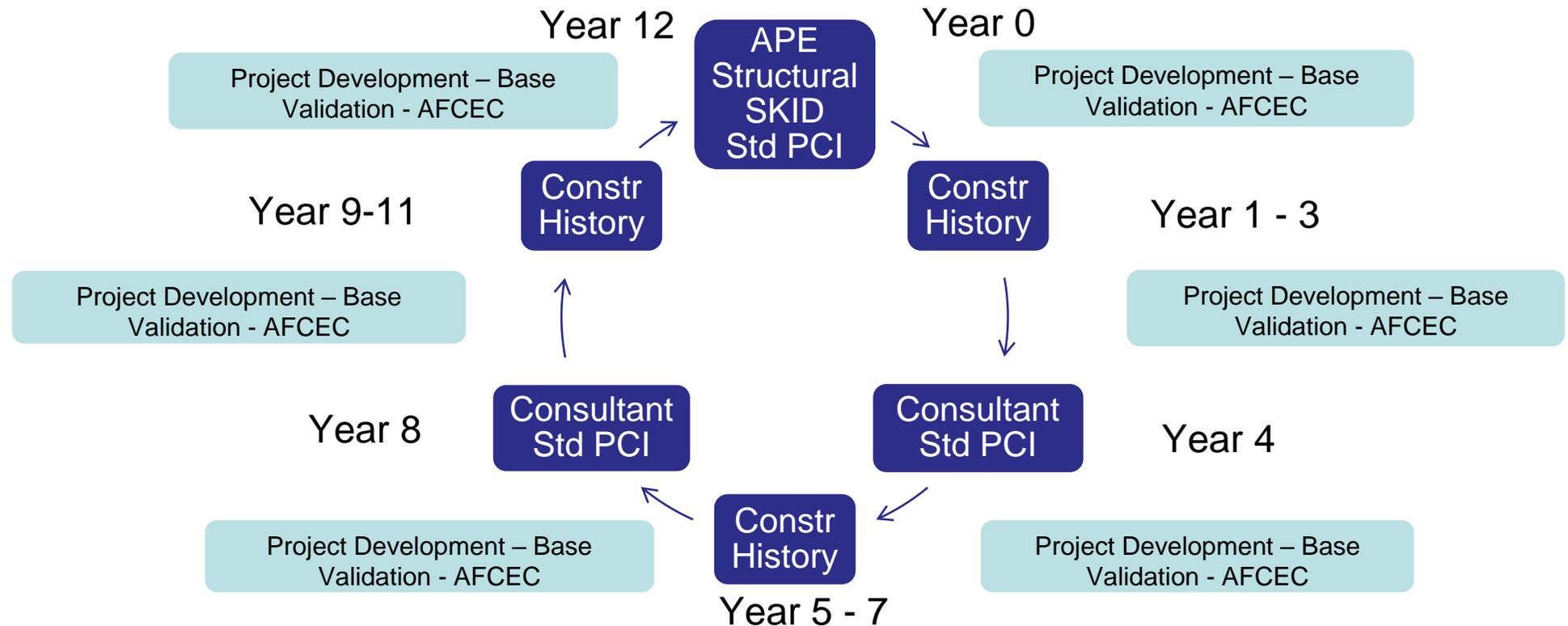


Understand Air Force efforts to develop Pavement Management plans: **How?**

- The Air Force has been collecting pavement inventory/condition data since the 1970's

**Pavement  
Evaluation  
Cycle**

**Active Duty  
and AFRC Bases**



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## **Poll Question 2**

**How many are familiar with PAVER SMS?**

ⓘ Start presenting to display the poll results on this slide.



# Objective 2

## What?



**Understand the processes used to identify mission requirements and resource constraints:**  
**What do you have?**

- **Define Inventory**
  - **AF Real Property (RP) Records – Auditable Database maintained by RP Officer**
  - **SMS Data (PAVER) updated by assessment teams**
  - **GeoBase – “common operating picture”**
  - **Need to reconcile PAVER and RP/GIS data for accurate inventory**

SMS = Sustainment Management System

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# Objective 2

## What?



**Understand the processes used to identify mission requirements and resource constraints:  
What condition is it in?**

### ■ Define Condition

#### ■ PAVER Data & PCI/APE report

- Used to identify current requirements, forecast future requirements
- Data Centrally Collected – 4-5 yr cycle
- All PCI and APE reports are stored in CE Dash:

<https://usaf.dps.mil/teams/10758/pavereports/module/pavement%20reports/prthome.aspx>

**\*This site and data are available to CAC holders**

PCI = Pavement Condition Index; APE = Airfield Pavement Evaluation, CAC = DoD Common Access Card

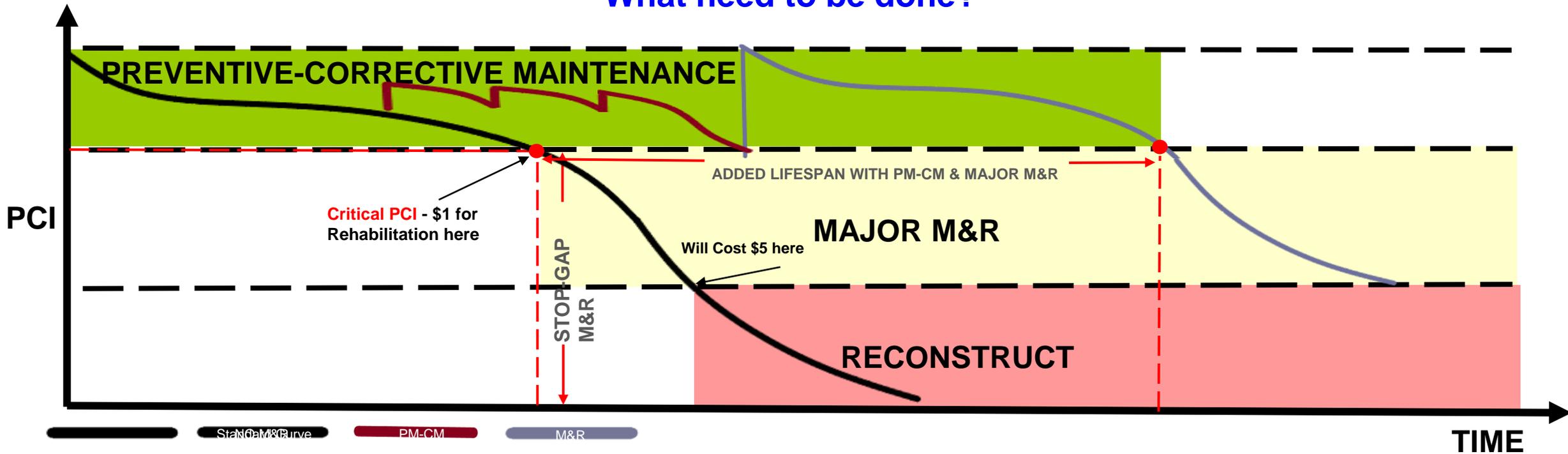
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# Objective 2 What?



Understand the processes used to identify mission requirements and resource constraints:  
**What need to be done?**



Critical PCI for Primary pavements = 70  
Critical PCI for all other pavements = 55

The critical PCI is an economic breakpoint that helps us define what maintenance and repair (M&R) actions to take

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# Objective 2

## What?



**Understand the processes used to identify mission requirements and resource constraints:**  
**What needs to be done?**

- **Condition Based**
  - PCI/APE surveys will ID requirements using PAVER data
  - Installation may ID between Assessments
- **Non-condition Based**
  - **Customer Request - may reflect changes in Mission, “Nice to Haves”**
    - Local Funding, Cost Sharing
  - Non-compliance with code
  - For AFCAMP submission, will require additional justification

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# Objective 2

## What?



Understand the processes used to identify mission requirements and resource constraints:  
**What needs to be done?**

Table 4-4: PAVER Recommended Major M&R by Year

| Year                 | Branch-Section | Rank | Area (ft <sup>2</sup> ) | Surface | Recommended Treatment      | PCI Before Treatment | Cost               |
|----------------------|----------------|------|-------------------------|---------|----------------------------|----------------------|--------------------|
| 2023                 | TWF-T34A       | P    | 22,186                  | PCC     | Selective Slab Replacement | 71                   | \$181,838          |
| 2023                 | OAAGE-A100     | T    | 9,666                   | PCC     | Selective Slab Replacement | 83                   | \$46,768           |
| 2023                 | OAAGE-A102     | T    | 8,161                   | PCC     | Selective Slab Replacement | 84                   | \$37,346           |
| 2023                 | OAAGE-A104     | T    | 17,616                  | AC      | Mill and AC Overlay        | 54                   | \$33,781           |
| 2023                 | OAHUSHE-T18C   | T    | 14,481                  | PCC     | Selective Slab Replacement | 58                   | \$178,404          |
| 2023                 | OAHUSHW-A26C   | T    | 13,688                  | PCC     | Selective Slab Replacement | 65                   | \$136,987          |
| 2023                 | SH270PDM-S51   | T    | 2,827                   | PCC     | Selective Slab Replacement | 72                   | \$22,368           |
| 2023                 | SHHUSHW-S40    | T    | 1,911                   | PCC     | Selective Slab Replacement | 67                   | \$17,959           |
| 2023                 | SHHUSHW-S41    | T    | 6,742                   | AC      | Mill and AC Overlay        | 54                   | \$12,932           |
| <b>2023 Subtotal</b> |                |      |                         |         |                            |                      | <b>\$3,000,660</b> |
| 2024                 | AP270PDM-A53B  | P    | 356,483                 | PCC     | Selective Slab Replacement | 66                   | \$3,516,965        |
| 2024                 | SH270PDM-S50   | P    | 8,504                   | AC      | AC Reconstruction          | 37                   | \$81,189           |
| <b>2024 Subtotal</b> |                |      |                         |         |                            |                      | <b>\$3,598,154</b> |
| 2025                 | AP233APN-A52B  | P    | 11,859                  | PCC     | PCC Reconstruction         | 33                   | \$406,413          |
| 2025                 | OACOMPASS-A76B | P    | 34,495                  | PCC     | Selective Slab Replacement | 56                   | \$467,229          |
| 2025                 | SHEAST-S44     | P    | 15,372                  | AC      | AC Reconstruction          | 10                   | \$149,694          |
| 2025                 | SHSEOR-S05     | P    | 26,268                  | AC      | Mill and AC Overlay        | 44                   | \$169,633          |
| 2025                 | SHTWA-S07      | P    | 155,996                 | AC      | Mill and AC Overlay        | 48                   | \$530,260          |
| 2025                 | SHTWA-S43      | P    | 43,328                  | AC      | AC Reconstruction          | 32                   | \$421,933          |
| 2025                 | SHTWE-S29      | P    | 25,125                  | AC      | AC Reconstruction          | 38                   | \$244,670          |
| 2025                 | TWA-T25A       | P    | 111,376                 | PCC     | Selective Slab Replacement | 70                   | \$976,586          |
| 2025                 | TWC-T40A       | P    | 28,438                  | PCC     | Selective Slab Replacement | 70                   | \$249,445          |
| 2025                 | SH233APN-S45   | T    | 4,801                   | AC      | Mill and AC Overlay        | 53                   | \$9,631            |
| <b>2025 Subtotal</b> |                |      |                         |         |                            |                      | <b>\$3,625,496</b> |

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# Objective 2 What?



## Understand the processes used to identify mission requirements and resource constraints: What need to be done?

| Branch Name          | Branch ID | Section ID | Facility Number | RPUID   | FAC  | CATCODE | Change   |
|----------------------|-----------|------------|-----------------|---------|------|---------|--|
| Municipal Apron      | APMUNICIP | A41B       | TBD01           | TBD01   | 1131 | 113321  | The Municipal Apron pavements did not have Real Property information available; therefore, they were assigned a Facility ID of "TBD01" and the appropriate CATCODE (113321)          |
| Municipal Apron      | APMUNICIP | A42B       | TBD01           | TBD01   | 1131 | 113321  |  |
| Municipal Apron      | APMUNICIP | A43B       | TBD01           | TBD01   | 1131 | 113321  |  |
| Municipal Apron      | APMUNICIP | A44B       | TBD01           | TBD01   | 1131 | 113321  |  |
| Municipal Apron      | APMUNICIP | A45B       | TBD01           | TBD01   | 1131 | 113321  |  |
| Municipal Apron      | APMUNICIP | A46B       | TBD01           | TBD01   | 1131 | 113321  |  |
| Municipal Apron      | APMUNICIP | T38A       | TBD01           | TBD01   | 1131 | 113321  |  |
| ENJJPT Washrack      | OAWASHE   | A11B       | TBD02           | TBD02   | 1131 | 113321  | These apron pavements did not have Real Property information available; therefore, they were assigned a Facility ID of "TBD02" and the appropriate CATCODE (113321)                  |
| ENJJPT Washrack      | OAWASHE   | A12B       | TBD02           | TBD02   | 1131 | 113321  |  |
| Hush House Apron     | OAHUSH    | A10B       | TBD02           | TBD02   | 1131 | 113321  |  |
| AOC Apron Shoulders  | SHAPAO    | S05        | TBD03           | TBD03   | 1165 | 116642  | This newly constructed shoulder pavement did not have Real Property information available; therefore, it was assigned a Facility ID of "TBD03" and the appropriate CATCODE (116642). |
| Red Carpet Shoulders | SHRED     | S01        | 23030           | 1058604 | 1165 | 116642  | This facility is recommended to be moved to the facility for the AOC Apron Shoulders once Real Property information for that facility has been assigned.                             |

### Real Property / SMS Discrepancy Report

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# Objective 2

## What?



**Understand the processes used to identify mission requirements and resource constraints:**  
**What are my capabilities/LIMFACS?**

- **Manpower**
  - What and how many personnel do I have?
  - What are their capabilities and training levels?
- **Equipment**
  - What do I have? What do I need?
  - What condition is it in?
- **Funding**
  - What is available in ExPlan \$
  - Is there an established contract vehicle (IDIQ, MATOC, etc.)?

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## **Poll Question 3**

**How many are familiar with developing  
Pavement Management Plans:**

① Start presenting to display the poll results on this slide.



# Objective 3

## How?



Understand the development of base unique pavement maintenance strategies:  
**How do I build a plan?**

### Develop “Data Driven” base strategy

- Identify/Involve stakeholders
- Identify Mission requirements
- Examine LIMFACs
- Factor Resource restrictions
- “Right Sizing” – Ramp Space
- Climate/Environment Factors
- Availability of Materials



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# Objective 3



## How...Right Sizing Ramp Space

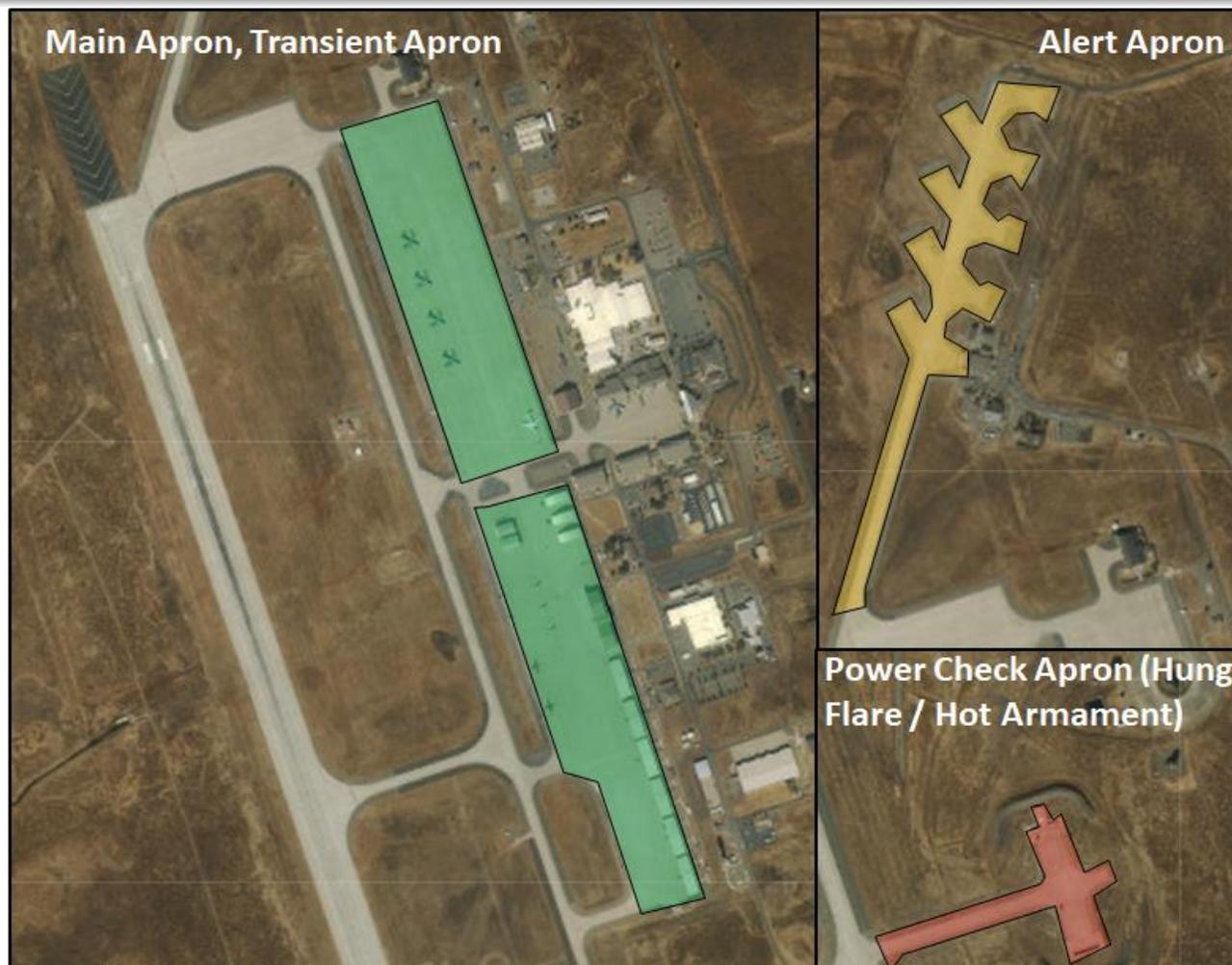
- Available ramp area: 268,514 SQM (after removing unsuitable areas and transient ramp)
- Required ramp area: 67,265 SQM (includes interior taxilane, jet blast and sunshades)
- Excess ramp area: 201,249 SQM
- Available parking spaces: 10 large / 42 small
- Required ramp parking spaces: 6 large / 19 small
- Required dock spaces: 1 large / 33 small
- Excess parking spaces: 4 large / 23 small

| Existing Condition |     |     |             |                        |                        |                     |                     |
|--------------------|-----|-----|-------------|------------------------|------------------------|---------------------|---------------------|
| MDS                | TAI | PAA | Dock Factor | Dock Space Requirement | Ramp Space Requirement | Current Ramp Spaces | Ramp Space Capacity |
| KC-135*            | 8   | 8   | .15         | 1                      | 6                      | 10                  | 4                   |
| E-11               |     | 6   | NA          | NA                     | NA                     | NA                  | NA                  |
| T-38               | 15  | 13  | .27         | 3                      | 12                     | 42                  | 23                  |
| TU-2               | 6   | 4   | 1           | 4                      | 2                      |                     |                     |
| U-2S               | 32  | 27  | 1           | 27                     | 5                      |                     |                     |

\*Note: AMC transient aircraft factor applied for required ramp spaces (25% in transient)

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## How...Right Sizing Ramp Space



- **Main/Transient Apron: Parking space validated; Supports T-38, KC-135, and U2 missions**
- **Alert Apron: Parking space validated for now; swing space during DLA hydrant project**
  - **Potential for divestiture upon completion of DLA hydrant project**
- **Power Check Apron (Hot Armament / Hung Flare): Potential for divestiture**
  - **Limited use for combat armed aircraft; not required for current mission**

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# Objective 3

## How?



### Understand the development of base unique pavement maintenance strategies: How do I build a plan?

#### A.3.2 - Localized M&R, (PM-CM) (As of 2020 Airfield PCI Survey)

##### Grand Forks AFB, ND

| Rqmt | Rqmt Priorit | Opportunity Project | Project | Execution Metho | PMP Zon | Branch Name    | Branch ID | Section | Rank | PCI | Surf T | Section Area (ft <sup>2</sup> ) | Distress     | Severity | Work Description             | Est Work Qty | Unit | Cost    | Pre-Work Site Visit Perform | Work Completed | Comments |
|------|--------------|---------------------|---------|-----------------|---------|----------------|-----------|---------|------|-----|--------|---------------------------------|--------------|----------|------------------------------|--------------|------|---------|-----------------------------|----------------|----------|
|      |              |                     |         |                 |         | 3 Bay Apron    | AP3BAY    | A27C    | T    | 71  | PCC    | 213402                          | JT SEAL DMG  | M        | Joint Seal (Localized)       | 4122         | Ft   | 14,590  |                             |                |          |
|      |              |                     |         |                 |         | 600 Area Apron | AP600AREA | A24B1   | T    | 85  | PCC    | 22921                           | CORNER SPALL | L        | Crack Sealing - PCC          | 2            | Ft   | 8       |                             |                |          |
|      |              |                     |         |                 |         | 600 Area Apron | AP600AREA | A24B1   | T    | 85  | PCC    | 22921                           | SMALL PATCH  | M        | Patching - PCC Partial Depth | 3            | SqFt | 31      |                             |                |          |
|      |              |                     |         |                 |         | 600 Area Apron | AP600AREA | A05B2   | T    | 95  | PCC    | 81995                           | CORNER SPALL | L        | Crack Sealing - PCC          | 9            | Ft   | 39      |                             |                |          |
|      |              |                     |         |                 |         | 600 Area Apron | AP600AREA | A24B1   | T    | 85  | PCC    | 22921                           | JOINT SPALL  | L        | Crack Sealing - PCC          | 49           | Ft   | 206     |                             |                |          |
|      |              |                     |         |                 |         | 600 Area Apron | AP600AREA | A06B    | T    | 91  | PCC    | 37695                           | JOINT SPALL  | M        | Patching - PCC Partial Depth | 23           | SqFt | 247     |                             |                |          |
|      |              |                     |         |                 |         | 600 Area Apron | AP600AREA | A05B1   | T    | 9   | PCC    | 84302                           | LINEAR CR    | H        | Crack Sealing - PCC          | 85           | Ft   | 361     |                             |                |          |
|      |              |                     |         |                 |         | 600 Area Apron | AP600AREA | A06B    | T    | 91  | PCC    | 37695                           | JOINT SPALL  | L        | Crack Sealing - PCC          | 120          | Ft   | 510     |                             |                |          |
|      |              |                     |         |                 |         | 600 Area Apron | AP600AREA | A24B1   | T    | 85  | PCC    | 22921                           | JOINT SPALL  | M        | Patching - PCC Partial Depth | 57           | SqFt | 600     |                             |                |          |
|      |              |                     |         |                 |         | 600 Area Apron | AP600AREA | A05B2   | T    | 95  | PCC    | 81995                           | JOINT SPALL  | L        | Crack Sealing - PCC          | 167          | Ft   | 709     |                             |                |          |
|      |              |                     |         |                 |         | 600 Area Apron | AP600AREA | A05B1   | T    | 9   | PCC    | 84302                           | LINEAR CR    | M        | Crack Sealing - PCC          | 1279         | Ft   | 5,422   |                             |                |          |
|      |              |                     |         |                 |         | 600 Area Apron | AP600AREA | A05B1   | T    | 9   | PCC    | 84302                           | LARGE PATCH  | H        | Patching - PCC Full Depth    | 839          | SqFt | 52,262  |                             |                |          |
|      |              |                     |         |                 |         | 600 Area Apron | AP600AREA | A05B1   | T    | 9   | PCC    | 84302                           | SHAT. SLAB   | H        | Slab Replacement - PCC       | 2131         | SqFt | 54,863  |                             |                |          |
|      |              |                     |         |                 |         | 600 Area Apron | AP600AREA | A05B1   | T    | 9   | PCC    | 84302                           | DURABIL. CR  | M        | Patching - PCC Full Depth    | 10140        | SqFt | 631,493 |                             |                |          |
|      |              |                     |         |                 |         | 600 Area Apron | AP600AREA | A05B1   | T    | 9   | PCC    | 84302                           | DURABIL. CR  | H        | Slab Replacement - PCC       | 31971        | SqFt | 822,938 |                             |                |          |
|      |              |                     |         |                 |         | Bravo Apron    | APBAPRON  | T14A1   | P    | 18  | PCC    | 26624                           | CORNER SPALL | H        | Patching - PCC Partial Depth | 3            | SqFt | 29      |                             |                |          |
|      |              |                     |         |                 |         | Bravo Apron    | APBAPRON  | T27A    | P    | 88  | PCC    | 35165                           | CORNER SPALL | L        | Crack Sealing - PCC          | 9            | Ft   | 38      |                             |                |          |
|      |              |                     |         |                 |         | Bravo Apron    | APBAPRON  | A09B    | P    | 93  | PCC    | 117897                          | SMALL PATCH  | H        | Patching - PCC Partial Depth | 5            | SqFt | 50      |                             |                |          |
|      |              |                     |         |                 |         | Bravo Apron    | APBAPRON  | A09B    | P    | 93  | PCC    | 117897                          | CORNER SPALL | M        | Patching - PCC Partial Depth | 5            | SqFt | 50      |                             |                |          |
|      |              |                     |         |                 |         | Bravo Apron    | APBAPRON  | A08B2   | P    | 98  | PCC    | 186624                          | CORNER SPALL | L        | Crack Sealing - PCC          | 14           | Ft   | 58      |                             |                |          |
|      |              |                     |         |                 |         | Bravo Apron    | APBAPRON  | A09B    | P    | 93  | PCC    | 117897                          | SMALL PATCH  | M        | Patching - PCC Partial Depth | 9            | SqFt | 99      |                             |                |          |
|      |              |                     |         |                 |         | Bravo Apron    | APBAPRON  | A09B    | P    | 93  | PCC    | 117897                          | CORNER SPALL | L        | Crack Sealing - PCC          | 26           | Ft   | 109     |                             |                |          |
|      |              |                     |         |                 |         | Bravo Apron    | APBAPRON  | T14A2   | P    | 98  | PCC    | 35745                           | JOINT SPALL  | L        | Crack Sealing - PCC          | 41           | Ft   | 173     |                             |                |          |
|      |              |                     |         |                 |         | Bravo Apron    | APBAPRON  | A09B    | P    | 93  | PCC    | 117897                          | JOINT SPALL  | L        | Crack Sealing - PCC          | 57           | Ft   | 242     |                             |                |          |

A.3.1 Major M&R

**A.3.2 PM-CM**



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# Objective 3 How?



Understand the development of base unique pavement maintenance strategies:  
How do I build a plan?

## A.3.2 - Localized M&R, (PM-CM) (Updated from Airfield PCI Survey)

| Reqd FY | Assign Yr | Apparent # of Project | Execution Method | PMP Zone | Installation/Network | Branch-Section  | Branch Name       | Branch ID | Section | Rank | PCI | Surf Type | Section Area (ft <sup>2</sup> ) | Distress     | Severity | Work Description    | Est Work Qty | Unit | Cost |
|---------|-----------|-----------------------|------------------|----------|----------------------|-----------------|-------------------|-----------|---------|------|-----|-----------|---------------------------------|--------------|----------|---------------------|--------------|------|------|
| 2021    | 2021      | Ramp 1                | Central          | D        | CharAB               | AP01-A16B08     | Apron 1           | AP01      | A16B08  | P    | 91  | PCC       | 32399                           | CORNER SPALL | L        | Crack Sealing - PCC | 2            | Ft   | 6    |
| 2021    | 2023      |                       | In House         | C        | CharAB               | TWF-T34C        | Taxiway F         | TWF       | T34C    | S    | 94  | PCC       | 24940                           | CORNER SPALL | L        | Crack Sealing - PCC | 2            | Ft   | 6    |
| 2021    | 2023      |                       | In House         | C        | CharAB               | OALOAD-A25B02   | Loading Apron     | OALOAD    | A25B02  | S    | 66  | PCC       | 59923                           | CORNER SPALL | L        | Crack Sealing - PCC | 2            | Ft   | 6    |
| 2021    | 2023      |                       | In House         | C        | CharAB               | TWD-T03A        | Taxiway D         | TWD       | T03A    | P    | 98  | PCC       | 1E+05                           | CORNER SPALL | L        | Crack Sealing - PCC | 2            | Ft   | 6    |
| 2021    | 2025      |                       | Contract         | E        | CharAB               | GAHANG700-A04C2 | Hangar 700 Apron  | GAHANG700 | A04C2   | T    | 91  | PCC       | 15920                           | CORNER SPALL | L        | Crack Sealing - PCC | 2            | Ft   | 6    |
| 2021    | 2025      |                       | Contract         | E        | CharAB               | GAHANG532-A07C2 | Hangar 532 Apron  | GAHANG532 | A07C2   | T    | 88  | PCC       | 62952                           | CORNER SPALL | L        | Crack Sealing - PCC | 2            | Ft   | 6    |
| 2021    | 2026      | Ramp 4                | Central          | D        | CharAB               | APA-A22B8       | Apron A           | APA       | A22B8   | P    | 92  | PCC       | 44527                           | CORNER SPALL | L        | Crack Sealing - PCC | 2            | Ft   | 6    |
| 2021    | 2021      | Ramp 1                | Central          | D        | CharAB               | AP01-A16B15     | Apron 1           | AP01      | A16B15  | P    | 79  | PCC       | 41766                           | CORNER SPALL | L        | Crack Sealing - PCC | 2            | Ft   | 6    |
| 2021    | 2024      |                       | Contract         | B        | CharAB               | RW0321-R25A1    | Runway 03/21      | RW0321    | R25A1   | P    | 94  | PCC       | 93900                           | JOINT SPALL  | L        | Crack Sealing - PCC | 2            | Ft   | 6    |
| 2021    | 2023      |                       | In House         | C        | CharAB               | TWH-T19C        | Taxiway H         | TWH       | T19C    | S    | 98  | PCC       | 51426                           | JOINT SPALL  | L        | Crack Sealing - PCC | 2            | Ft   | 6    |
| 2021    | 2023      |                       | In House         | C        | CharAB               | TWF-T22C        | Taxiway F         | TWF       | T22C    | S    | 95  | PCC       | 25645                           | JOINT SPALL  | L        | Crack Sealing - PCC | 2            | Ft   | 6    |
| 2021    | 2023      |                       | In House         | C        | CharAB               | TWH-T50C        | Taxiway H         | TWH       | T50C    | S    | 96  | PCC       | 25475                           | CORNER SPALL | L        | Crack Sealing - PCC | 2            | Ft   | 6    |
| 2021    | 2025      |                       | Contract         | E        | CharAB               | GAHANGTWE-A40C  | TW E Hangar Apron | GAHANGTWE | A40C    | T    | 89  | PCC       | 3588                            | JOINT SPALL  | L        | Crack Sealing - PCC | 2            | Ft   | 6    |
| 2021    | 2025      |                       | Contract         | E        | CharAB               | GAHANGTWE-A40C  | TW E Hangar Apron | GAHANGTWE | A40C    | T    | 89  | PCC       | 3588                            | CORNER SPALL | L        | Crack Sealing - PCC | 2            | Ft   | 6    |
| 2021    | 2023      |                       | In House         | C        | CharAB               | TWH-T42C        | Taxiway H         | TWH       | T42C    | S    | 93  | PCC       | 22413                           | CORNER SPALL | L        | Crack Sealing - PCC | 2            | Ft   | 6    |
| 2021    | 2023      |                       | In House         | C        | CharAB               | TWH-T43C        | Taxiway H         | TWH       | T43C    | S    | 92  | PCC       | 22975                           | JOINT SPALL  | L        | Crack Sealing - PCC | 2            | Ft   | 6    |
| 2021    | 2025      | Ramp 3                | Central          | D        | CharAB               | AP02-A18B09     | Apron 2           | AP02      | A18B09  | P    | 81  | PCC       | 39594                           | CORNER SPALL | L        | Crack Sealing - PCC | 2            | Ft   | 6    |
| 2021    | 2021      | Ramp 1                | Central          | D        | CharAB               | AP01-A16B06     | Apron 1           | AP01      | A16B06  | P    | 94  | PCC       | 32810                           | CORNER SPALL | L        | Crack Sealing - PCC | 2            | Ft   | 6    |

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# Objective 3 How?



| FY                              | 2024                |              | 2025                |                 | 2026                |                | 2027                |                | 2028                |              | 2029                |                | 2030                |                | 2031                |                |
|---------------------------------|---------------------|--------------|---------------------|-----------------|---------------------|----------------|---------------------|----------------|---------------------|--------------|---------------------|----------------|---------------------|----------------|---------------------|----------------|
| Execution                       | Opportunity Project | Cost (\$K)   | Opportunity Project | Cost (\$K)      | Opportunity Project | Cost (\$K)     | Opportunity Project | Cost (\$K)     | Opportunity Project | Cost (\$K)   | Opportunity Project | Cost (\$K)     | Opportunity Project | Cost (\$K)     | Opportunity Project | Cost (\$K)     |
| Major M&R (Centralized)         |                     |              | BAEY1054983         | \$6,039         | BAEY211011          | \$7,543        |                     |                |                     |              | BAEY29XXXX          | \$3,274        |                     |                | BAEY31XXXX          | \$2,139        |
|                                 |                     |              | BAEY1106400         | \$6,175         |                     |                |                     |                |                     |              |                     |                |                     |                |                     |                |
|                                 |                     |              |                     |                 |                     |                |                     |                |                     |              |                     |                |                     |                |                     |                |
| Sub-Total (\$K)                 |                     | \$0          |                     | \$12,213        |                     | \$7,543        |                     | \$0            |                     | \$0          |                     | \$3,274        |                     | \$0            |                     | \$2,139        |
| Major M&R (De-Centralized)      |                     |              | BAEY25XXXX          | \$478           | BAEY26XXXX          | \$649          | BAEY27XXXX          | \$1,024        | BAEY28XXXX          | \$387        |                     |                | BAEY30XXXX          | \$625          | BAEY31XXXX          | \$332          |
|                                 |                     |              |                     |                 |                     |                |                     |                |                     |              |                     |                |                     |                |                     |                |
|                                 |                     |              |                     |                 |                     |                |                     |                |                     |              |                     |                |                     |                |                     |                |
| Sub-Total (\$K)                 |                     | \$0          |                     | \$478           |                     | \$649          |                     | \$1,024        |                     | \$387        |                     | \$0            |                     | \$625          |                     | \$332          |
| Recurring Costs                 | Striping            | \$150        |                     | \$155           |                     | \$159          |                     | \$164          |                     | \$169        |                     | \$174          |                     | \$179          |                     | \$184          |
|                                 | Rubber Removal      | \$65         |                     | \$67            |                     | \$69           |                     | \$71           |                     | \$73         |                     | \$75           |                     | \$78           |                     | \$80           |
|                                 | Joint Seal          | \$150        |                     | \$155           |                     | \$159          |                     | \$164          |                     | \$169        |                     | \$174          |                     | \$179          |                     | \$184          |
| Sub-Total (\$K)                 |                     | \$365        |                     | \$376           |                     | \$387          |                     | \$399          |                     | \$411        |                     | \$423          |                     | \$436          |                     | \$449          |
| Sustainment Actions ID'd Rqmnts | Crack Seal          | \$3          |                     | \$7             |                     | \$4            |                     | \$1            |                     | \$0          |                     | \$0            |                     | \$3            |                     | \$0            |
|                                 | Spall / Patching    | \$10         |                     | \$0             |                     | \$3            |                     | \$10           |                     | \$0          |                     | \$0            |                     | \$0            |                     | \$0            |
|                                 | Slab Replacement    | \$0          |                     | \$0             |                     | \$0            |                     | \$0            |                     | \$0          |                     | \$0            |                     | \$0            |                     | \$75           |
|                                 | Grinding            | \$0          |                     | \$0             |                     | \$0            |                     | \$0            |                     | \$0          |                     | \$0            |                     | \$0            |                     | \$0            |
| Sub-Total (\$K)                 |                     | \$13         |                     | \$7             |                     | \$6            |                     | \$11           |                     | \$0          |                     | \$0            |                     | \$3            |                     | \$75           |
| Global                          | Surface/Fog Seal    | \$0          |                     | \$0             |                     | \$0            |                     | \$0            |                     | \$0          |                     | \$0            |                     | \$0            |                     | \$0            |
|                                 | Other               | \$0          |                     | \$0             |                     | \$0            |                     | \$0            |                     | \$0          |                     | \$0            |                     | \$0            |                     | \$0            |
| Sub-Total (\$K)                 |                     | \$0          |                     | \$0             |                     | \$0            |                     | \$0            |                     | \$0          |                     | \$0            |                     | \$0            |                     | \$0            |
| <b>TOTALS (\$K)</b>             |                     | <b>\$378</b> |                     | <b>\$13,075</b> |                     | <b>\$8,586</b> |                     | <b>\$1,433</b> |                     | <b>\$797</b> |                     | <b>\$3,697</b> |                     | <b>\$1,064</b> |                     | <b>\$2,996</b> |

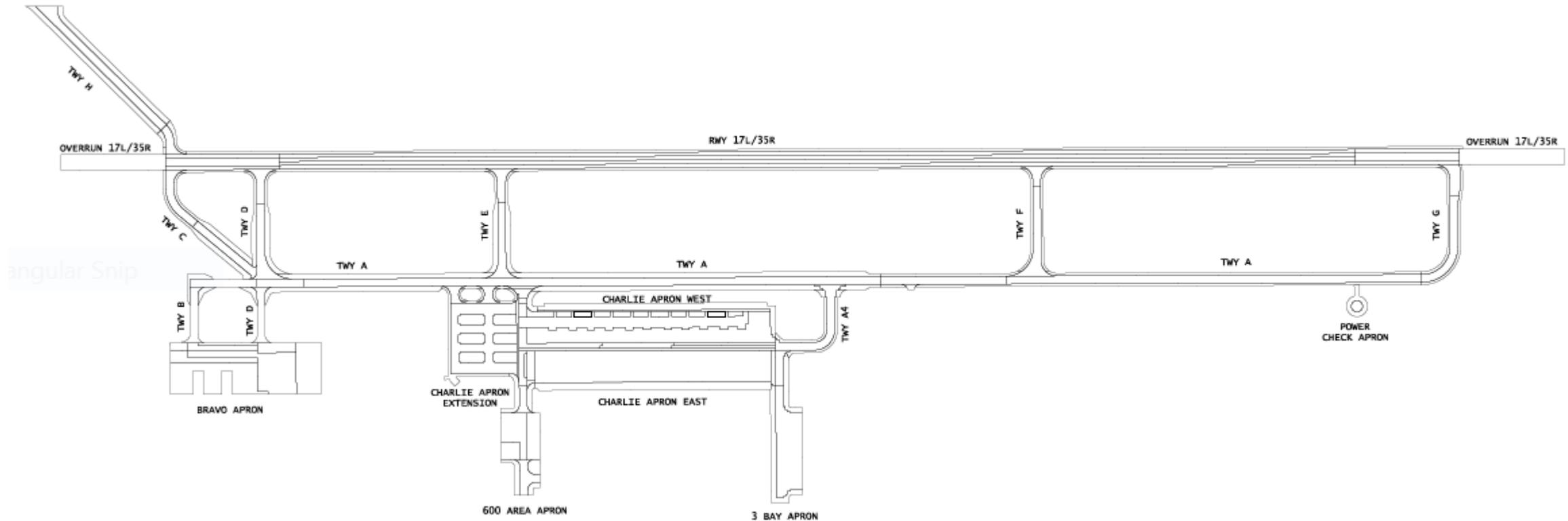
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# Objective 3 How?



Understand the development of base unique pavement maintenance strategies:  
How do I implement the plan?



Zones...Pavement Rank...????

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# Objective 3

## How?



Understand the development of base unique pavement maintenance strategies:  
**How do I implement the plan?**

| A.3.2 - Localized M&R, (PM-CM) (As of 2020 Airfield PCI Survey) |      |                 |        |                         |           |         |      |     |        |                                 |              |          |                              |              |      |         |                             |             |          |
|---|------|-----------------|--------|-------------------------|-----------|---------|------|-----|--------|---------------------------------|--------------|----------|------------------------------|--------------|------|---------|-----------------------------|-------------|----------|
| Grand Forks AFB, ND   |      |                 |        |                         |           |         |      |     |        |                                 |              |          |                              |              |      |         |                             |             |          |
|   | Rqmt | Execution Methd | PMP Zc | Branch Name             | Branch ID | Section | Rank | PCI | Surf T | Section Area (ft <sup>2</sup> ) | Distress     | Severity | Work Description             | Est Work Qty | Unit | Cost    | Pre-Work Site Visit Perform | Work Comple | Comments |
| 100   | 2024 | CONTRACT        | 1      | Taxiway Echo            | TWECHO    | T16A    | S    | 63  | PCC    | 63564                           | DURABIL. CR  | M        | Patching - PCC Full Depth    | 512          | SqFt | 31,889  |                             |             |          |
| 101   | 2024 | CONTRACT        | 1      | Taxiway Echo            | TWECHO    | T20A    | S    | 88  | PCC    | 32795                           | CORNER SPALL | L        | Crack Sealing - PCC          | 2            | Ft   | 7       |                             |             |          |
| 102   | 2024 | CONTRACT        | 1      | Taxiway Echo            | TWECHO    | T20A    | S    | 88  | PCC    | 32795                           | JOINT SPALL  | M        | Patching - PCC Partial Depth | 7            | SqFt | 70      |                             |             |          |
| 103   | 2024 | CONTRACT        | 1      | Taxiway Echo            | TWECHO    | T20A    | S    | 88  | PCC    | 32795                           | JOINT SPALL  | L        | Crack Sealing - PCC          | 54           | Ft   | 227     |                             |             |          |
| 104   | 2025 | CONTRACT        | 1      | Taxiway Golf            | TWGOLF    | T23A    | P    | 82  | PCC    | 32012                           | JOINT SPALL  | L        | Crack Sealing - PCC          | 57           | Ft   | 243     |                             |             |          |
| 105   | 2025 | CONTRACT        | 1      | Taxiway Golf            | TWGOLF    | T23A    | P    | 82  | PCC    | 32012                           | JOINT SPALL  | M        | Patching - PCC Partial Depth | 49           | SqFt | 520     |                             |             |          |
| 106   | 2025 | CONTRACT        | 1      | Taxiway Golf            | TWGOLF    | T23A    | P    | 82  | PCC    | 32012                           | JT SEAL DMG  | M        | Joint Seal (Localized)       | 1024         | Ft   | 3,623   |                             |             |          |
| 107   | 2030 | CONTRACT        | 2      | Taxiway Bravo           | TWBRAVO   | T13A    | P    | 27  | PCC    | 44972                           | JOINT SPALL  | H        | Patching - PCC Partial Depth | 10           | SqFt | 102     |                             |             |          |
| 108   | 2030 | CONTRACT        | 2      | Taxiway Bravo           | TWBRAVO   | T13A    | P    | 27  | PCC    | 44972                           | LINEAR CR    | M        | Crack Sealing - PCC          | 491          | Ft   | 2,081   |                             |             |          |
| 109   | 2030 | CONTRACT        | 2      | Taxiway Bravo           | TWBRAVO   | T13A    | P    | 27  | PCC    | 44972                           | DURABIL. CR  | M        | Patching - PCC Full Depth    | 1343         | SqFt | 83,617  |                             |             |          |
| 110   | 2024 | CONTRACT        | 3      | 600 Area Apron          | AP600AREA | A05B1   | T    | 9   | PCC    | 84302                           | LINEAR CR    | H        | Crack Sealing - PCC          | 85           | Ft   | 361     |                             |             |          |
| 111   | 2024 | CONTRACT        | 3      | 600 Area Apron          | AP600AREA | A05B1   | T    | 9   | PCC    | 84302                           | LINEAR CR    | M        | Crack Sealing - PCC          | 1279         | Ft   | 5,422   |                             |             |          |
| 112   | 2024 | CONTRACT        | 3      | 600 Area Apron          | AP600AREA | A05B1   | T    | 9   | PCC    | 84302                           | LARGE PATCH  | H        | Patching - PCC Full Depth    | 839          | SqFt | 52,262  |                             |             |          |
| 113   | 2024 | CONTRACT        | 3      | 600 Area Apron          | AP600AREA | A05B1   | T    | 9   | PCC    | 84302                           | SHAT. SLAB   | H        | Slab Replacement - PCC       | 2131         | SqFt | 54,863  |                             |             |          |
| 114   | 2024 | CONTRACT        | 3      | 600 Area Apron          | AP600AREA | A05B1   | T    | 9   | PCC    | 84302                           | DURABIL. CR  | M        | Patching - PCC Full Depth    | 10140        | SqFt | 631,493 |                             |             |          |
| 115   | 2024 | CONTRACT        | 3      | 600 Area Apron          | AP600AREA | A05B1   | T    | 9   | PCC    | 84302                           | DURABIL. CR  | H        | Slab Replacement - PCC       | 31971        | SqFt | 822,938 |                             |             |          |
| 116   | 2024 | CONTRACT        | 3      | Charlie Apron East      | APCAPRONE | A24B2   | P    | 82  | PCC    | 20605                           | CORNER SPALL | L        | Crack Sealing - PCC          | 2            | Ft   | 7       |                             |             |          |
| 117   | 2024 | CONTRACT        | 3      | Charlie Apron East      | APCAPRONE | A24B2   | P    | 82  | PCC    | 20605                           | SMALL PATCH  | M        | Patching - PCC Partial Depth | 3            | SqFt | 29      |                             |             |          |
| 118   | 2024 | CONTRACT        | 3      | Charlie Apron East      | APCAPRONE | A24B2   | P    | 82  | PCC    | 20605                           | JOINT SPALL  | L        | Crack Sealing - PCC          | 43           | Ft   | 181     |                             |             |          |
| 119   | 2024 | CONTRACT        | 3      | Charlie Apron East      | APCAPRONE | A24B2   | P    | 82  | PCC    | 20605                           | JOINT SPALL  | M        | Patching - PCC Partial Depth | 78           | SqFt | 821     |                             |             |          |
| 120   | 2026 | CONTRACT        | 3      | Charlie Apron Extension | APCAPNEX  | A20B    | P    | 80  | PCC    | 27666                           | CORNER SPALL | M        | Patching - PCC Partial Depth | 5            | SqFt | 49      |                             |             |          |
| 121   | 2026 | CONTRACT        | 3      | Charlie Apron Extension | APCAPNEX  | A20B    | P    | 80  | PCC    | 27666                           | SMALL PATCH  | H        | Patching - PCC Partial Depth | 9            | SqFt | 98      |                             |             |          |
| 122   | 2026 | CONTRACT        | 3      | Charlie Apron Extension | APCAPNEX  | A20B    | P    | 80  | PCC    | 27666                           | LINEAR CR    | M        | Crack Sealing - PCC          | 26           | Ft   | 109     |                             |             |          |
| 123   | 2026 | CONTRACT        | 3      | Charlie Apron Extension | APCAPNEX  | A20B    | P    | 80  | PCC    | 27666                           | CORNER SPALL | L        | Crack Sealing - PCC          | 45           | Ft   | 191     |                             |             |          |
| 124   | 2026 | CONTRACT        | 3      | Charlie Apron Extension | APCAPNEX  | A20B    | P    | 80  | PCC    | 27666                           | JOINT SPALL  | H        | Patching - PCC Partial Depth | 28           | SqFt | 293     |                             |             |          |
| 125   | 2026 | CONTRACT        | 3      | Charlie Apron Extension | APCAPNEX  | A20B    | P    | 80  | PCC    | 27666                           | JOINT SPALL  | L        | Crack Sealing - PCC          | 215          | Ft   | 1,224   |                             |             |          |

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# Objective 3

## How?



Understand the development of base unique pavement maintenance strategies:  
**How does this effort help my base ?**

- **Compliance with guidance and establishes** a M&R plan based on asset data and mission
- Identifies requirements focusing on **keeping good assets “good”** while repairing failing infrastructure needed for the mission
- Provides **detailed pavement inventory** information to update Real Property records
- Outlines process for more **efficient employment of pavement sustainment activities and resources**
- **Streamlines resourcing** (AFCAMP/EXPLAN) processes for pavement requirements
- Enables MAJCOMs to compare base pavement requirements to **establish priorities**

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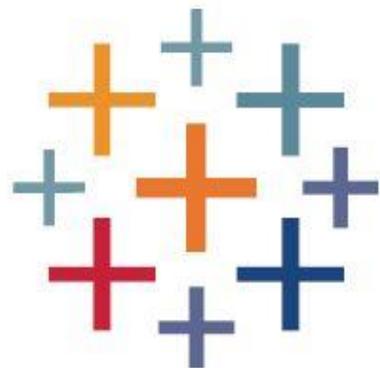
Eval Cycle



# Objective 4 Pavement Tool Demo



Comprehend the Tableau Pavement Tool w/ PAVER data used to support the PMP effort



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## Comprehend the Tableau Pavement Tool used to support the PMP effort

Select  
Tableau  
Server



The screenshot shows a web portal for AF Data Lab. The browser address bar displays 'afdatalab.af.mil/vdesk/webtop.eui?webtop=/Common/AppWebtop&webtop\_type=webtop\_full'. The page header includes the Air Force logo and a notification: 'There is currently an open issue with the Databricks Metastore, we have escalated to the vendor and are awaiting a response.' with a 'Logout' button and the time '15:52:45'. The main content area is organized into sections: 'HelpDesk' with a 'Help Desk & Requests' tile; 'VAULT-DEFAULT' with 'VAULT Default Hue' and 'VAULT Default Zeppelin' tiles; and 'Other Resources' with tiles for 'Plotly Dash Enterprise', 'Data Lake', 'Axon', 'Plotly Dash', 'AD Lookups', and 'Shiny Server'. The 'Tableau Server' tile is located below the 'Other Resources' section and is pointed to by a red arrow. The Windows taskbar at the bottom shows the time as 1:56 PM.

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# Objective 4 Pavement Tool



## Comprehend the Tableau Pavement Tool used to support the PMP effort

Select  
AFIMSC  
Tableau  
Server



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# Objective 4



## Comprehend the Tableau Pavement Tool used to support the PMP effort

The screenshot shows a web browser window with the URL `tableau.afdatalab.af.mil/#/site/AFIMSC/projects/296`. The interface displays a folder named 'AFIMSC' owned by 'DANTE.PAWA.1085702226'. Below the folder name is a table listing various project categories. A red arrow points to the 'Civil Engineering' row in the table.

| Type                     | Name                                 | Actions | Value                    | Owner                  | Modified |
|--------------------------|--------------------------------------|---------|--------------------------|------------------------|----------|
| <input type="checkbox"/> | Airmen & Family Services             | ...     | DANTE.PAWA.1085702226    | Sep 16, 2021, 9:28 AM  |          |
| <input type="checkbox"/> | Civil Engineering                    | ...     | DANTE.PAWA.1085702226    | Sep 16, 2021, 8:39 AM  |          |
| <input type="checkbox"/> | Communications                       | ...     | DANTE.PAWA.1085702226    | Sep 30, 2022, 12:25 PM |          |
| <input type="checkbox"/> | Contracting                          | ...     | DANTE.PAWA.1085702226    | Oct 4, 2021, 9:31 AM   |          |
| <input type="checkbox"/> | Deployment & Distribution            | ...     | DANTE.PAWA.1085702226    | Sep 19, 2022, 9:45 AM  |          |
| <input type="checkbox"/> | Environmental Quality                | ...     | DANTE.PAWA.1085702226    | Sep 16, 2021, 8:42 AM  |          |
| <input type="checkbox"/> | Financial Management                 | ...     | DANTE.PAWA.1085702226    | Sep 16, 2021, 8:41 AM  |          |
| <input type="checkbox"/> | HAF/A4LM                             | ...     | JOHN.KILLORAN.1589317137 | Feb 1, 2022, 2:10 PM   |          |
| <input type="checkbox"/> | Installation Health Assessment (IHA) | ...     | DANTE.PAWA.1085702226    | Sep 16, 2021, 8:45 AM  |          |
| <input type="checkbox"/> | Installation Support (IZ)            | ...     | DANTE.PAWA.1085702226    | Jun 22, 2022, 3:54 PM  |          |

Select Civil Engineering

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# Objective 4



## Comprehend the Tableau Pavement Tool used to support the PMP effort

Select AFCEC

The screenshot shows a Tableau workspace titled 'Civil Engineering' with the following table of items:

| Type   | Name                          | Actions | Value                         | Owner                         | Modified               |
|--------|-------------------------------|---------|-------------------------------|-------------------------------|------------------------|
| Folder | AFCEC                         | ...     | DANTE.PAWA.1085702226         | DANTE.PAWA.1085702226         | Sep 15, 2021, 4:15 PM  |
| Folder | Civil Engineering - Archive   | ...     | DANTE.PAWA.1085702226         | DANTE.PAWA.1085702226         | Sep 16, 2021, 9:52 AM  |
| Folder | Civil Engineering - Dev       | ...     | DANTE.PAWA.1085702226         | DANTE.PAWA.1085702226         | May 31, 2022, 2:02 PM  |
| Folder | Facility Operations           | ...     | DANTE.PAWA.1085702226         | DANTE.PAWA.1085702226         | Sep 16, 2021, 9:12 AM  |
| Folder | FSRM                          | ...     | YAN.CHIN.1596623057           | YAN.CHIN.1596623057           | May 31, 2022, 2:08 PM  |
| Folder | Optimal Life Cycle Investment | ...     | DANTE.PAWA.1085702226         | DANTE.PAWA.1085702226         | Mar 11, 2022, 11:07 AM |
| Table  | 18 CEG/CERF STH12 Back Up     | ...     | TAKAHIRO.MATSUMURA.1521126260 | TAKAHIRO.MATSUMURA.1521126260 | Jul 21, 2022, 4:45 PM  |
| Table  | 18 CEG/CERF STH12 Test        | ...     | TAKAHIRO.MATSUMURA.1521126260 | TAKAHIRO.MATSUMURA.1521126260 | Apr 15, 2022, 12:45 AM |
| Table  | Luke AFB BUILDER Data Map     | ...     | DANTE.PAWA.1085702226         | DANTE.PAWA.1085702226         | Mar 4, 2021, 9:45 AM   |
| Table  | Luke BUILDER Map 20210720     | ...     | ROBERT.CROSSMAN.1157297399    | ROBERT.CROSSMAN.1157297399    | Jul 20, 2021, 3:37 PM  |

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# Objective 4



## Comprehend the Tableau Pavement Tool used to support the PMP effort

The screenshot shows a web browser window with multiple tabs. The active tab is 'tableau.afdatalab.af.mil/#/site/AFIMSC/projects/332'. The page displays a folder named 'AFCEC' with owner 'DANTE.PAWA.1085702226'. Below the folder name is a table listing various sub-folders.

| Type   | Name                        | Actions | Value                    | Owner                    | Modified               |
|--------|-----------------------------|---------|--------------------------|--------------------------|------------------------|
| Folder | AFCEC - Archive             | ...     | DANTE.PAWA.1085702226    | DANTE.PAWA.1085702226    | Sep 16, 2021, 9:52 AM  |
| Folder | AFCEC - Dev                 | ...     | DANTE.PAWA.1085702226    | DANTE.PAWA.1085702226    | Jun 21, 2022, 9:31 AM  |
| Folder | AFCEC- CF/CP                | ...     | DYLAN.DELGADO.1596008794 | DYLAN.DELGADO.1596008794 | Sep 29, 2021, 12:23 PM |
| Folder | CNA                         | ...     | DANTE.PAWA.1085702226    | DANTE.PAWA.1085702226    | Sep 29, 2021, 12:21 PM |
| Folder | Facilities Space Management | ...     | DANTE.PAWA.1085702226    | DANTE.PAWA.1085702226    | Sep 29, 2021, 12:00 PM |
| Folder | Housing and Dorms           | ...     | DANTE.PAWA.1085702226    | DANTE.PAWA.1085702226    | Sep 29, 2021, 12:04 PM |
| Folder | OEA                         | ...     | DANTE.PAWA.1085702226    | DANTE.PAWA.1085702226    | Sep 30, 2022, 12:31 PM |
| Folder | Pavements                   | ...     | DANTE.PAWA.1085702226    | DANTE.PAWA.1085702226    | Sep 29, 2021, 12:06 PM |
| Folder | Real Property               | ...     | SEAN.GUILLORY.1176580972 | SEAN.GUILLORY.1176580972 | Jun 21, 2022, 9:33 AM  |
| Folder | FY20Checkbook               | ...     | James Kittleman (VPN)    | James Kittleman (VPN)    | Jan 25, 2021, 6:01 PM  |

Select Pavements



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# Objective 4



## Comprehend the Tableau Pavement Tool used to support the PMP effort

Select Afd Pvmnts Mgmt Tool (Enterprise PAVER Rollup)



The screenshot shows a Tableau Server interface with the following details:

- Browser tabs: AFIMSC HOMEPAGE: AFIMSC HO, Pavements - Tableau Server, Afd Pvmnts Mgmt Tool (Enterpri
- URL: tableau.afdatalab.af.mil/#/site/AFIMSC/projects/336
- Breadcrumbs: FIMSC / Civil Engineering / AFCEC / Pavements
- Search bar: Search for views, metrics, workbooks, and more
- Page title: Pavements
- Owner: DANTE.PAWA.1085702226
- Table with columns: Type, Name, Actions, Value, Owner, Modified

| Type         | Name   | Actions | Value | Owner                  | Modified               |
|--------------|--|---------|-------|------------------------|------------------------|
| Folder       | Pavements - Dev  | ...     |       | DANTE.PAWA.1085702226  | Sep 29, 2021, 12:27 PM |
| Folder       | Pavements - Archive  | ...     |       | DANTE.PAWA.1085702226  | Sep 29, 2021, 12:31 PM |
| Tableau View | Afd Pvmnts Mgmt Tool   | ...     |       | DANIEL.WROB.1596615100 | Sep 8, 2021, 2:44 PM   |
| Tableau View | Afd Pvmnts Mgmt Tool (Enterprise PAVER Rollup)                           | ...     |       | DANIEL.WROB.1596615100 | Feb 21, 2023, 8:56 AM  |
| Tableau View | Rds&Prkg Pvmnts Mgmt Tool  | ...     |       | DANIEL.WROB.1596615100 | Aug 4, 2021, 4:14 PM   |
| Tableau View | Rds&Prkg Pvmnts Mgmt Tool (Enterprise PAVER Rollup)                      | ...     |       | DANIEL.WROB.1596615100 | Feb 28, 2023, 3:13 PM  |
| Tableau View | Rds&Prkg Pvmnts Mgmt Tool for Fort Sam Houston (Enterprise PAVER Rollup) | ...     |       | DANIEL.WROB.1596615100 | Jul 13, 2022, 4:20 PM  |
| Tableau View | airfields_output (fsrc.airfields_output) (fsrc)                          | ...     |       | DANIEL.WROB.1596615100 | Dec 8, 2021, 12:03 AM  |
| Tableau View | gdb  | ...     |       | DANIEL.WROB.1596615100 | Dec 8, 2021, 12:03 AM  |

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# Objective 4



## Comprehend the Tableau Pavement Tool used to support the PMP effort

The screenshot shows a Tableau workspace with the following details:

- Browser tabs: AF Data Lab, AFIMSC HOMEPAGE: AFIMSC HO, Afld Pvmnts Mgmt Tool (Enterpri, Afld Pvmnts Mgmt Tool (Enterpri
- URL: tableau.afdatalab.af.mil/#/site/AFIMSC/workbooks/1954/views
- Search bar: Search for views, metrics, workbooks, and more
- Page title: Explore / AFIMSC / ... / Pavements / Afld Pvmnts Mgmt Tool (Enterprise PAVER Rollup)
- View title: Afld Pvmnts Mgmt Tool (Enterprise PAVER Rollup)
- Owner: DANIEL.WROB.1596615100
- Modified: Feb 21, 2023, 8:56 AM
- Extract (Unencrypted): Feb 21, 2023, 8:56 AM
- Views: 11, Data Sources: 6, Connected Metrics: 0, Custom Views: 1, Extract Refreshes: 0, Subscriptions: 2, Lineage
- Sort By: Sheet (first-last) ↑
- Table columns: Type, Name, Actions, Views (all-time), Sheet

| Type       | Name                             | Actions | Views (all-time) | Sheet |
|------------|----------------------------------|---------|------------------|-------|
| □ ☆ [Icon] | Engineering Assessment           | ...     | 1,219            | 1     |
| □ ☆ [Icon] | Section Degradation Report 10 yr | ...     | 819              | 2     |
| □ ☆ [Icon] | Section Degradation Report 5     | ...     | 288              | 3     |
| □ ☆ [Icon] | Extrapolated Distress            | ...     | 451              | 4     |
| □ ☆ [Icon] | Export Table                     | ...     | 200              | 5     |
| □ ☆ [Icon] | A-2 PoF Table Dash               | ...     | 113              | 6     |
| □ ☆ [Icon] | Real Property Table              | ...     | 163              | 7     |
| □ ☆ [Icon] | Major M&R Requirements           | ...     | 208              | 8     |
| □ ☆ [Icon] | Cost by Work Type Planning       | ...     | 142              | 9     |

Select Engineering Assessment

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# Objective 4



## Comprehend the Tableau Pavement Tool used to support the PMP effort

Engineering Assessment | Section Degradation Report 10... | Section Degradation Report 5 | Extrapolated Distress | Export Table | A-2 PoF Table Dash | Real Property Table | Major M&R Requirements | Cost by Work Type Planning | Cost by PCI Planning | AGL Dash

### Pavement Activity Management Program (AMP) Dashboard: Engineering Assessment

Data as of August 2020 Airfield Pavement Rollup

Filter data by:

MAJCOM: [All]

Network ID: Grand Forks

Section Rank: [All]

Surface Type: [All]

Branch Use: [All]

Branch Name: [All]

Branch ID: [All]

EA Score Range: [All]

Sort data by:

Sort Direction: Best to Worst

PCI: [All]

Navigate to:

- 10 year degradation
- 5 year degradation
- Distress Dashboard
- Export Data Table

**Grand Forks AFB Airfield**

58.46  
Condition Index at Inspection

7,210,119  
Pavement Sqft

42.62%  
Percent Sqft Below Critical PCI

Map Option: Default

**Engineering Assessment Detail**

| Branch Name        | Branch ID  | Section ID | Surface Type | Rank      | EA | PCI at Inspection | Friction Index | Structural Index | FOD Potential |
|--------------------|------------|------------|--------------|-----------|----|-------------------|----------------|------------------|---------------|
| Charlie Apron West | APCAPRON.. | T29A       | PCC          | Primary   | 2  | 98                |                |                  | 0             |
| Bravo Apron        | APBAPRON   | T14A2      | PCC          | Primary   | 2  | 98                |                |                  | 0             |
| Bravo Apron        | APBAPRON   | A08B2      | PCC          | Primary   | 2  | 98                |                |                  | 0             |
| Taxiway Golf       | TWGFOLF    | T01A       | PCC          | Primary   | 2  | 98                |                | 0.47             | 0             |
| Taxiway Alpha      | TWALPHA    | T02A       | PCC          | Primary   | 2  | 98                |                |                  | 0             |
| Charlie Apron West | APCAPRON.. | T28A       | PCC          | Primary   | 2  | 97                |                |                  | 0             |
| Taxiway Foxtrot    | TWFOXTR..  | T08A       | PCC          | Secondary | 2  | 97                |                |                  | 0             |
| 600 Area Apron     | AP600AREA  | A05B2      | PCC          | Tertiary  | 2  | 95                |                |                  | 0             |
| Taxiway A3         | TWA3       | T07A3      | PCC          | Primary   | 2  | 94                |                |                  | 0             |
| Bravo Apron        | APBAPRON   | A09B       | PCC          | Primary   | 2  | 93                |                | 0.73             | 0             |
| Taxiway A4         | TWA4       | T05A       | PCC          | Primary   | 2  | 93                |                | 0.35             | 0             |
| Charlie Apron West | APCAPRON.. | T25A       | PCC          | Primary   | 2  | 92                |                | 0.53             | 0             |
| 600 Area Apron     | AP600AREA  | A06B       | PCC          | Tertiary  | 2  | 91                |                |                  | 0             |
| Taxiway Alpha      | TWALPHA    | T21A       | PCC          | Primary   | 2  | 91                |                | 0.43             | 0             |
| Charlie Apron East | APCAPRONE  | A04B2      | PCC          | Primary   | 2  | 90                |                |                  | 0             |
| Charlie Apron East | APCAPRONE  | A21B       | PCC          | Primary   | 2  | 90                |                | 0.84             | 0             |
| Bravo Apron        | APBAPRON   | T27A       | PCC          | Primary   | 2  | 88                |                | 0.62             | 0             |
| Runway 17/35       | RW1735     | R05A1      | PCC          | Primary   | 2  | 88                | 0.66           | 0.34             | 0             |
| Taxiway Alpha      | TWALPHA    | T03A       | PCC          | Primary   | 2  | 88                |                |                  | 0             |

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# Objective 4



## Comprehend the Tableau Pavement Tool used to support the PMP effort

Engineering Assessment | Section Degradation Report 10... | Section Degradation Report 5 | Extrapolated Distress | Export Table | A-2 PoF Table Dash | Real Property Table | Major M&R Requirements | Cost by Work Type Planning | Cost by PCI Planning | AGL Dash

### Pavement Activity Management Program (AMP) Dashboard: Airfield Pavement Condition 10 yr (based on unfunded work plan)

Data as of August 21, 2020 Airfield Pavement Rollup

**Grand Forks AFB Airfield**      **51.24** Condition Index      **7,210,119** Pavement Sqft      **42.62%** Percent Sqft Below Critical PCI

Filter data

MAJCOM

Network ID

Section Rank

Surface Type

Branch Use

Branch Name

Branch ID

Year

PCI Ratings

Degradation vs Backlog

Navigate to:

Engineering Assessment

5-year Degradation

Export Data Table

Distress Dashboard

Map Option: Default

#### Section PCIs--2023

| Branch Name        | Branch ID  | Section ID | Surface Type | Rank      | Friction Index | Structural Index | FOD Index | PCI |
|--------------------|------------|------------|--------------|-----------|----------------|------------------|-----------|-----|
| Bravo Apron        | APBAPRON   | T14A2      | PCC          | Primary   | Null           | Null             | 0         | 95  |
| Bravo Apron        | APBAPRON   | A08B2      | PCC          | Primary   | Null           | Null             | 0         | 95  |
| Taxiway Golf       | TWGOLF     | T01A       | PCC          | Primary   | Null           | 0.47             | 0         | 95  |
| Taxiway Alpha      | TWALPHA    | T02A       | PCC          | Primary   | Null           | Null             | 0         | 95  |
| Charlie Apron West | APCAPRON.. | T29A       | PCC          | Primary   | Null           | Null             | 0         | 95  |
| Charlie Apron West | APCAPRON.. | T28A       | PCC          | Primary   | Null           | Null             | 0         | 94  |
| Taxiway Foxtrot    | TWFOXTR..  | T08A       | PCC          | Secondary | Null           | Null             | 0         | 94  |
| 600 Area Apron     | AP600AREA  | A05B2      | PCC          | Tertiary  | Null           | Null             | 0         | 92  |
| Taxiway A3         | TWA3       | T07A3      | PCC          | Primary   | Null           | Null             | 0         | 91  |
| Taxiway A4         | TWA4       | T05A       | PCC          | Primary   | Null           | 0.35             | 0         | 90  |
| Bravo Apron        | APBAPRON   | A09B       | PCC          | Primary   | Null           | 0.73             | 0         | 90  |
| Charlie Apron West | APCAPRON.. | T25A       | PCC          | Primary   | Null           | 0.53             | 0         | 89  |
| 600 Area Apron     | AP600AREA  | A06B       | PCC          | Tertiary  | Null           | Null             | 0         | 88  |
| Taxiway Alpha      | TWALPHA    | T21A       | PCC          | Primary   | Null           | 0.43             | 0         | 88  |
| Charlie Apron East | APCAPRONE  | A04B2      | PCC          | Primary   | Null           | Null             | 0         | 87  |
| Charlie Apron East | APCAPRONE  | A21B       | PCC          | Primary   | Null           | 0.84             | 0         | 87  |
| Taxiway Alpha      | TWALPHA    | T03A       | PCC          | Primary   | Null           | Null             | 0         | 85  |
| Bravo Apron        | APBAPRON   | T27A       | PCC          | Primary   | Null           | 0.62             | 0         | 85  |
| Runway 17/35       | RW1735     | R05A1      | PCC          | Primary   | 0.66           | 0.34             | 0         | 85  |
| Taxiway Echo       | TWECHO     | T20A       | PCC          | Secondary | Null           | 0.60             | 0         | 85  |
| Runway 17/35       | RW1735     | R05A2      | PCC          | Primary   | Null           | 0.33             | 0         | 85  |

#### Condition Degradation - 10 years (based on unfunded work plan)

| Rank    | Branch Name | Branch ID | Section ID | True Area | Surface Type | Last Insp Date  | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 |
|---------|-------------|-----------|------------|-----------|--------------|-----------------|------|------|------|------|------|------|------|------|------|------|
| Primary | Bravo Apron | APBAPRON  | A07B       | 206,843   | PCC          | August 21, 2020 | 10   | 8    | 7    | 6    | 5    | 3    | 2    | 1    | 0    | 0    |
|         |             |           | A08B1      | 52,230    | PCC          | August 21, 2020 | 19   | 17   | 16   | 15   | 14   | 12   | 11   | 10   | 9    | 8    |
|         |             |           | A08B2      | 186,624   | PCC          | August 21, 2020 | 97   | 95   | 94   | 93   | 92   | 90   | 89   | 88   | 87   | 86   |
|         |             |           | A09B       | 117,897   | PCC          | August 21, 2020 | 92   | 90   | 89   | 88   | 87   | 85   | 84   | 83   | 82   | 81   |
|         |             |           | T14A1      | 26,624    | PCC          | August 21, 2020 | 17   | 15   | 14   | 13   | 12   | 10   | 9    | 8    | 7    | 6    |
|         |             |           | T14A2      | 35,745    | PCC          | August 21, 2020 | 97   | 95   | 94   | 93   | 92   | 90   | 89   | 88   | 87   | 86   |

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# Objective 4



## Comprehend the Tableau Pavement Tool used to support the PMP effort

Hover over section on map (T02A)

The screenshot displays the Tableau Pavement Tool interface. On the left, there are filter panels for Network ID (Grand Forks), Section Rank (All), Surface Type (All), Branch Use (All), Branch Name (All), Branch ID (All), and Year (2023). The main area shows a map with a popup for 'Taxiway Alpha'. The popup contains the following details:

- Branch ID: TWALPHA
- Section ID: T02A
- Section Area: 296,796
- Year: 2023
- Condition Range: Good (86-100) (Above Critical PCI)
- Surface Type: PCC
- Aircraft: C-17
- ACN: N/A PCN: N/A
- Last Inspection Date: 8/22/2020

Below the popup is a table showing the forecasted condition index for Taxiway Alpha from 2022 to 2031:

| Branch Name   | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 |
|---------------|------|------|------|------|------|------|------|------|------|------|
| Taxiway Alpha | 97   | 95   | 94   | 93   | 92   | 90   | 89   | 88   | 87   | 86   |

At the bottom right, there is a legend for pavement conditions: Green for Good (86-100) and Red for Very Poor (26-40). A partial table of other branches is visible at the bottom right of the screen:

|                 |       |
|-----------------|-------|
| Runway 17/35    | RW173 |
| Taxiway Echo    | TWEC  |
| Runway 17/35    | RW173 |
| Taxiway Delta   | TWDEL |
| Taxiway Charlie | TWCHA |
| Taxiway Foxtrot | TWFO  |

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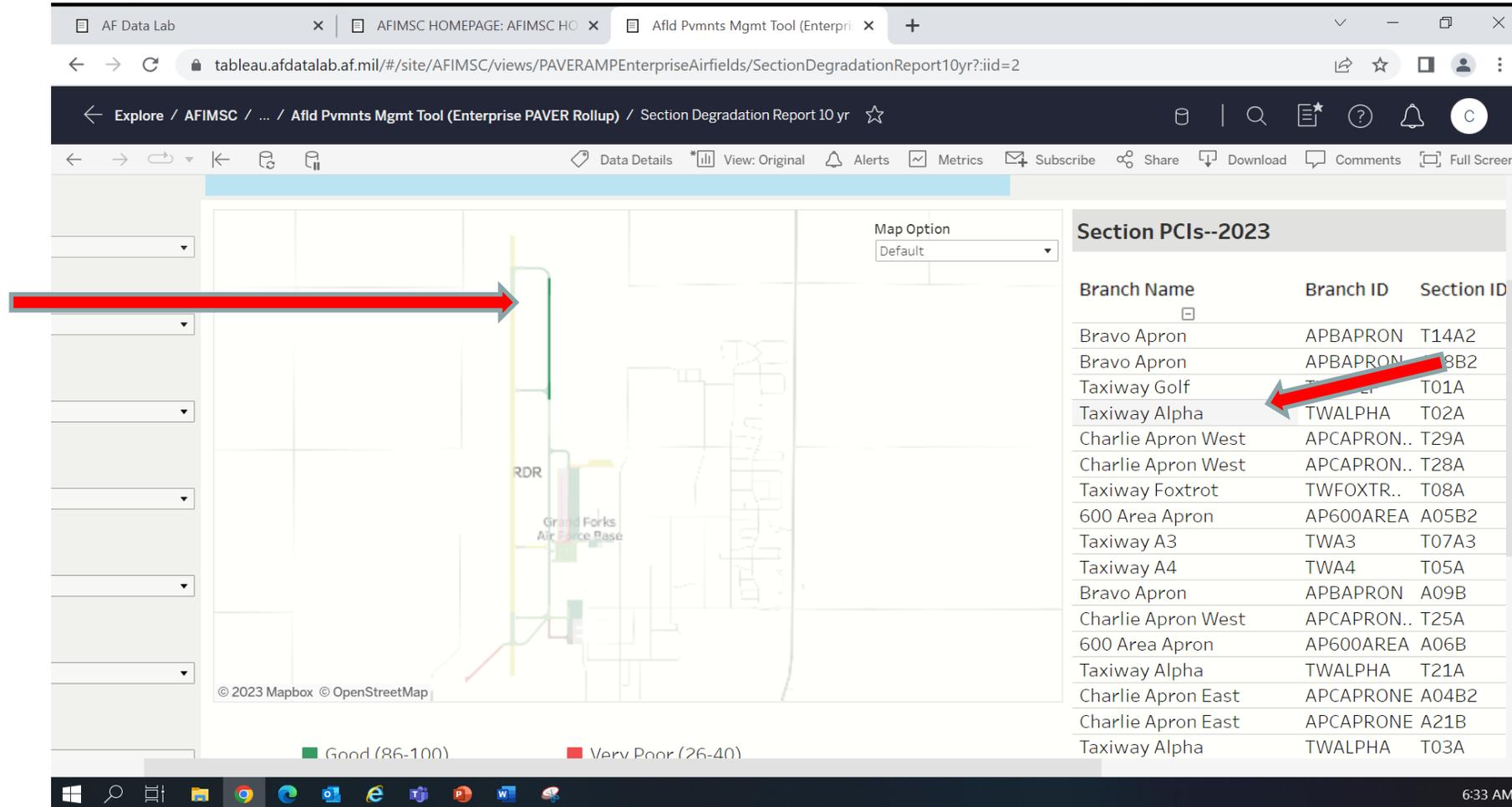


# Objective 4



## Comprehend the Tableau Pavement Tool used to support the PMP effort

Section is highlighted on the map (T02A)



Hover here

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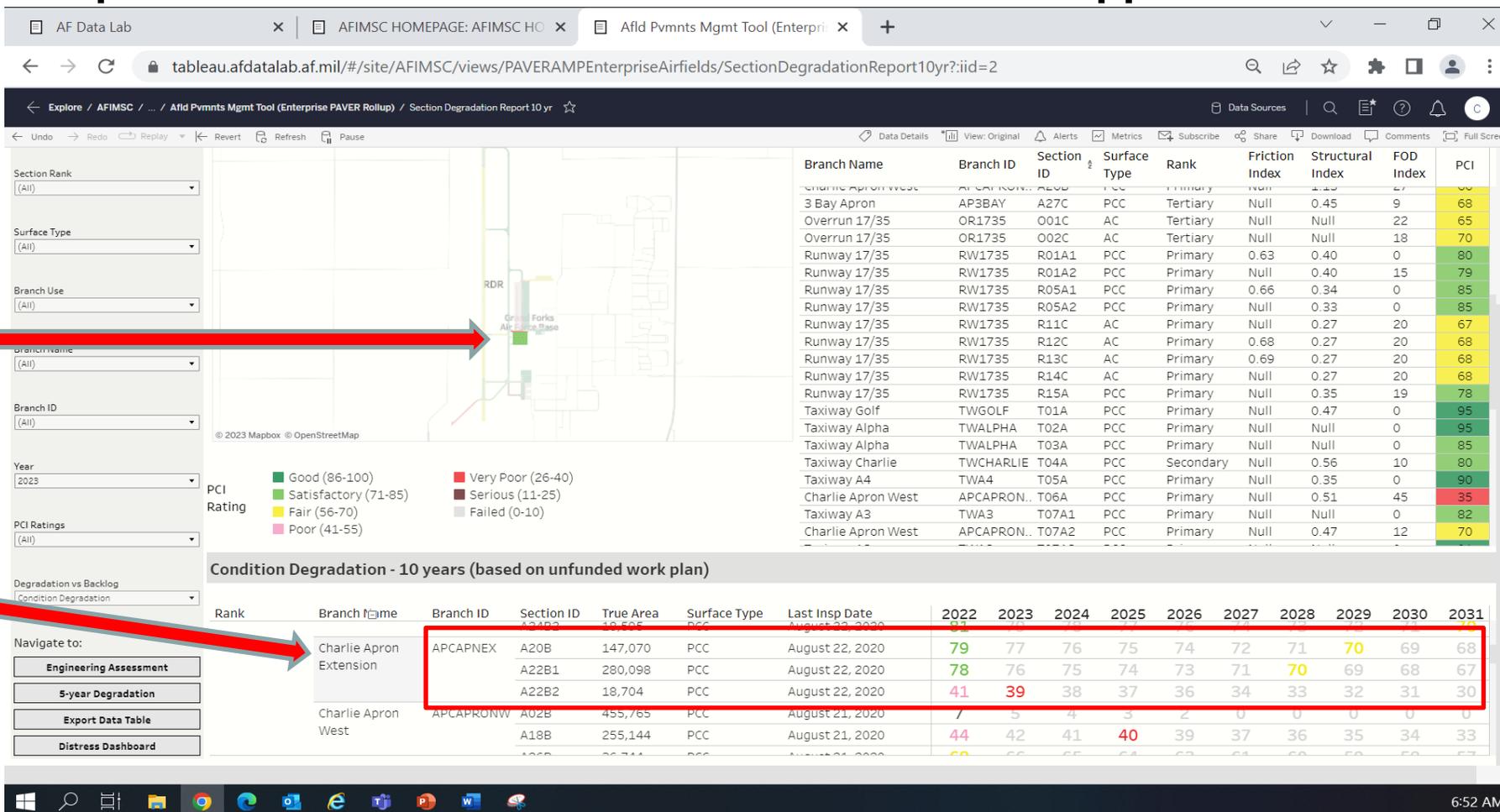


# Objective 4



## Comprehend the Tableau Pavement Tool used to support the PMP effort

Branch is highlighted on the map (APCAPNEX)



Hover here

Degradation over time

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# Objective 4



## Comprehend the Tableau Pavement Tool used to support the PMP effort

Section is highlighted on the map (A22B1)

Hover here

The screenshot shows the Tableau Pavement Tool interface. On the left, there are filter controls for Network ID, Rank, Surface Type, Branch Use, Branch Name, Branch ID, Distress Description, and Severity. The main map area displays the Grand Forks AFB Airfield with various pavement sections. A red arrow points to a specific section, A22B1, on the map. On the right, a table titled 'Section Distress Quantities' provides detailed data for this section.

| Branch Name             | Section ID   | Severity | Distress Description | Distress Unit | Work Qty | Work Cost   |
|-------------------------|--------------|----------|----------------------|---------------|----------|-------------|
| Charlie Apron Extension | A22B1        | Medium   | JT SEAL DMG          | Slabs         | 0        | \$0.00      |
|                         |              |          | LARGE PATCH          | Slabs         | 0        | \$0.00      |
|                         |              |          | SMALL PATCH          | Slabs         | 0        | \$0.00      |
|                         |              |          | CORNER SPALL         | Slabs         | 9        | \$89.14     |
|                         |              |          | JOINT SPALL          | Slabs         | 51       | \$534.86    |
|                         |              |          | CORNER BREAK         | Slabs         | 101      | \$6,291.09  |
|                         |              |          | CORNER SPALL         | Slabs         | 9        | \$89.14     |
|                         |              |          | JOINT SPALL          | Slabs         | 1,373    | \$14,548.31 |
|                         |              |          | SMALL PATCH          | Slabs         | 9        | \$89.14     |
|                         |              |          | CORNER SPALL         | Slabs         | 51       | \$217.57    |
|                         |              |          | JOINT SPALL          | Slabs         | 488      | \$2,066.96  |
|                         |              |          | JT SEAL DMG          | Slabs         | 0        | \$0.00      |
|                         |              |          | LINEAR CR            | Slabs         | 0        | \$0.00      |
| SMALL PATCH             | Slabs        | 0        | \$0.00               |               |          |             |
| N/A                     | SHRINKAGE CR | Slabs    | 0                    | \$0.00        |          |             |
| Runway 17/35            | R01A2        | Medium   | JOINT SPALL          | Slabs         | 105      | \$1,114.89  |
|                         |              |          | JT SEAL DMG          | Slabs         | 4,938    | \$17,480.82 |
|                         |              |          | CORNER SPALL         | Slabs         | 2        | \$7.56      |
|                         |              |          | JOINT SPALL          | Slabs         | 130      | \$551.78    |
|                         |              |          | IT SEAL DMG          | Slabs         | 0        | \$0.00      |

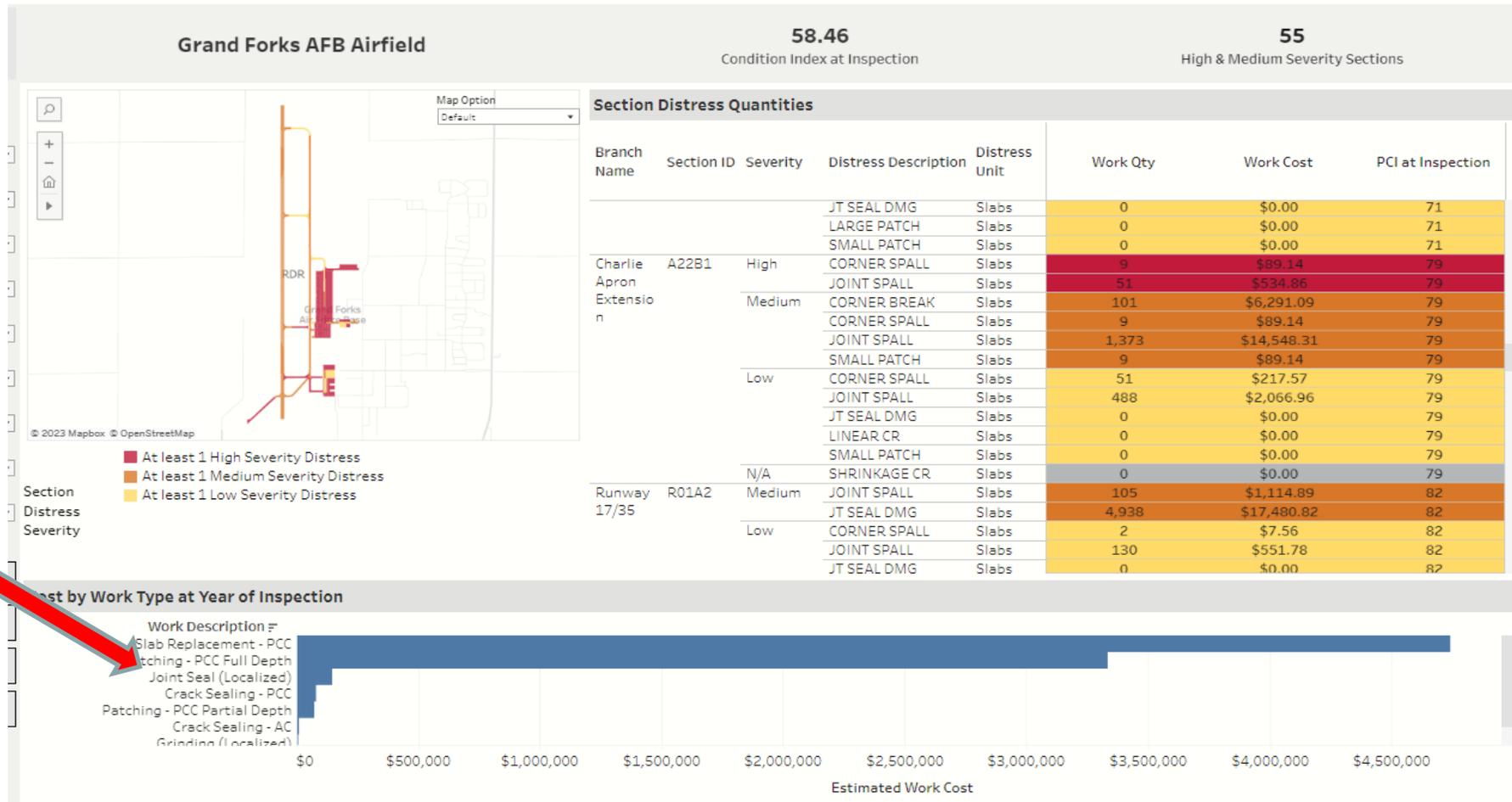
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# Objective 4



## Comprehend the Tableau Pavement Tool used to support the PMP effort



Summary work type & costs



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# Objective 4



## Comprehend the Tableau Pavement Tool used to support the PMP effort

Multiple data filters to drill down

Filter data by:

MAJCOM  
[All]

Network ID  
Grand Forks

Section Rank  
[All]

Surface Type  
[All]

Branch Use  
[All]

Branch Name  
[All]

Branch ID  
[All]

EA Score Range  
[All]

Sort data by:

Sort Direction  
Best to Worst

PCI  
[All]

Filter data by:

Work Plan  
Airfield DMR

MAJCOM  
[All]

Network ID  
Beale AFB

Rank  
[All]

(All)  
 Primary  
 Secondary  
 Tertiary  
 Unused

Cancel   Apply

Branch Name  
[All]

Branch ID  
[All]

Year  
2023

Filter data by:

Work Plan  
Airfield DMR

MAJCOM  
[All]

Network ID  
Beale AFB

Rank  
[All]

Surface Type  
[All]  
[All]  
AC  
PCC

Branch Name  
[All]

Branch ID  
[All]

Year  
2023

PCI Ratings  
[All]

Degradation vs Backlog  
[All]

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# Objective 4



## Comprehend the Tableau Pavement Tool used to support the PMP effort

Multiple map views

**Beale Air Force Base Airfield**

77.79 Condition Index      14,950,1 Pavement S

**Section PCIs--2023**

| Branch Name           | Branch ID | Section ID | Surface Type | PCI |
|-----------------------|-----------|------------|--------------|-----|
| Runway 15/33          | RW1533    | R03A       | PCC          | F   |
| Runway 15/33          | RW1533    | R08A2      | PCC          | F   |
| Taxiway L             | TWL       | T05A       | PCC          | F   |
| Runway 15/33          | RW1533    | R06A       | PCC          | F   |
| Runway 15/33          | RW1533    | R05C       | PCC          | F   |
| U-2 Parking Apron     | APU2      | A04B2      | PCC          | F   |
| Alert Apron           | APALERT   | A14B1      | PCC          | F   |
| Taxilane J            | TWJ       | T07A       | PCC          | F   |
| Taxiway B             | TWB       | T01A1      | PCC          | F   |
| Runway 15/33          | RW1533    | R01A2      | PCC          | F   |
| U-2 Parking Apron     | APU2      | A04B3      | PCC          | F   |
| Transient Parking A.. | APTRANS   | A06B       | PCC          | F   |
| North EOR Warm-U..    | OANWARMUP | A02B       | PCC          | F   |
| Taxiway E             | TWE       | T01A3      | PCC          | F   |
| Runway 15/33          | RW1533    | R01A1      | PCC          | F   |
| U-2 Parking Apron     | APU2      | A04B4      | PCC          | F   |
| Alert Apron           | APALERT   | A13B1      | PCC          | F   |
| Taxiway A             | TWA       | T04A       | PCC          | F   |
| Taxiway M             | TWM       | T11A       | PCC          | F   |

Map Option: Default, Street, Satellite, Blank

PCI Rating Legend:

- Good (86-100)
- Satisfactory (71-85)
- Fair (56-70)
- Poor (41-55)
- Very Poor (26-40)
- Failed (0-10)
- Serious (11-25)

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# Objective 4



## Comprehend the Tableau Pavement Tool used to support the PMP effort

Map views  
Satellite maps

**Beale Air Force Base Airfield**

77.79 Condition Index      14,950 Pavement

**Section PCIs--2023**

| Branch Name           | Branch ID | Section ID | Surface Type | PCI |
|-----------------------|-----------|------------|--------------|-----|
| Runway 15/33          | RW1533    | R03A       | PCC          | 77  |
| Runway 15/33          | RW1533    | R08A2      | PCC          | 77  |
| Taxiway L             | TWL       | T05A       | PCC          | 77  |
| Runway 15/33          | RW1533    | R06A       | PCC          | 77  |
| Runway 15/33          | RW1533    | R05C       | PCC          | 77  |
| U-2 Parking Apron     | APU2      | A04B2      | PCC          | 77  |
| Alert Apron           | APALERT   | A14B1      | PCC          | 77  |
| Taxilane J            | TWJ       | T07A       | PCC          | 77  |
| Taxiway B             | TWB       | T01A1      | PCC          | 77  |
| Runway 15/33          | RW1533    | R01A2      | PCC          | 77  |
| U-2 Parking Apron     | APU2      | A04B3      | PCC          | 77  |
| Transient Parking A.. | APTRANS   | A06B       | PCC          | 77  |
| North EOR Warm-U..    | OANWARMUP | A02B       | PCC          | 77  |
| Taxiway E             | TWE       | T01A3      | PCC          | 77  |
| Runway 15/33          | RW1533    | R01A1      | PCC          | 77  |
| U-2 Parking Apron     | APU2      | A04B4      | PCC          | 77  |
| Alert Apron           | APALERT   | A13B1      | PCC          | 77  |
| Taxiway A             | TWA       | T04A       | PCC          | 77  |
| Taxiway M             | TWM       | T11A       | PCC          | 77  |

**PCI Rating Legend:**

- Good (86-100)
- Satisfactory (71-85)
- Fair (56-70)
- Poor (41-55)
- Very Poor (26-40)
- Failed (0-10)
- Serious (11-25)

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# Summary



- **AF PMP efforts well underway with ECD in FY26**
- **Refined process sound...accolades from bases visited**
- **Challenges exist...Right sizing...Enterprise Plan “roll-ups”**
- **Teams continue to refine and automate product development**
  - **Plan**
  - **Pavement Tool**
- **PMP Refresh efforts to start in FY24**

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# Q&A

- Cecil Hastings, [cecil.hastings@us.af.mil](mailto:cecil.hastings@us.af.mil)
- Pat Kelly, [patrick.kelly.26@us.af.mil](mailto:patrick.kelly.26@us.af.mil)



# slido



**Please take a few minutes to complete a short survey about this session. Your feedback will help us improve future programming for JETC. Thank you.**

① Start presenting to display the poll results on this slide.



# Contacts



| Roles and Responsibilities  | <b>AMT TNAP Branch Chief</b><br><b>Mr. Pat Kelly, GS-14; DSN 523-6448, COM (850) 283-6448; E-mail: <a href="mailto:patrick.kelly.26@us.af.mil">patrick.kelly.26@us.af.mil</a></b> |   |
|---|---|---|
| <p><b><a href="#">Ms. Sara Bierman</a></b><br/> <b>[AFIMSC/IZBF]</b><br/> <b>DSN 969-8844</b><br/> <b>COM (210) 395-8844</b><br/> <b><a href="mailto:sara.bierman@us.af.mil">sara.bierman@us.af.mil</a></b></p> <p><b>**Contact your TNAP MAJCOM Sub-activity Managers for support!</b></p> <p><b>MAJCOM Sub-AMP Managers (SAMs):</b><br/> ACC – <a href="#">Mr. Scott Warrington</a><br/> AETC – <a href="#">Mr. Martin Beecher</a><br/> AFMC – <a href="#">Ms. Jane Davis</a><br/> AFRC – <a href="#">Mr. Albert Middleton</a><br/> AFSOC – <a href="#">Mr. Kris Austin</a><br/> AFDW – <a href="#">Ms. Jane Davis</a><br/> USAFA – <a href="#">Mr. Justin Wutzke</a><br/> USSF – <a href="#">Mr. Albert Middleton</a><br/> AFGSC – <a href="#">Mr. John Sprouse</a><br/> AMC – <a href="#">Mr. Cecil Hastings</a><br/> PACAF – <a href="#">Mr. Martin Beecher</a><br/> USAFE – <a href="#">Mr. John Sprouse</a></p> <p><b>Contractor Support:</b><br/> <a href="#">Mr. Scott Warrington</a><br/> <a href="#">Mr. Justin Wutzke</a><br/> <a href="#">Mr. Albert Middleton</a></p> | Activities  | Technical Leads   |
|   | <b>Pavements:</b><br>- Airfield<br><br>- Roads & Parking  | <b>Mr. Marty Beecher, GS-13 [COAT], AFCEC-Tyndall</b><br><b>DSN 523-6800, COM (850) 283-6800 or E-Mail: <a href="mailto:martin.beecher@us.af.mil">martin.beecher@us.af.mil</a></b><br><br><b>Mr. Cecil Hastings, P.E., GS-13 [COAT], AFCEC-Tyndall</b><br><b>DSN 523-6801, COM (850) 283-6801 or E-mail: <a href="mailto:cecil.hastings@us.af.mil">cecil.hastings@us.af.mil</a></b> |
|   | IACPs   | <b>Mr. Scott Warrington, Ctr, [COAT], AFCEC-Tyndall</b><br><b>DSN 523-6196, COM (850) 283-6196 or E-mail: <a href="mailto:charles.warrington.2.ctr@us.af.mil">charles.warrington.2.ctr@us.af.mil</a></b>  |
|   | Ports   | <b>Mr. John Sprouse, P.E., GS-13 [COAT], AFCEC-Tyndall</b><br><b>DSN 523-6794, COM (850) 283-6794 or E-mail: <a href="mailto:john.sprouse.2@us.af.mil">john.sprouse.2@us.af.mil</a></b>   |
|   | Railway Systems   | <b>Ms. Jane Davis, GS-13 [COAT], AFCEC-Tyndall</b><br><b>DSN 523-6200, COM (850) 283-6200 or E-mail: <a href="mailto:jane.davis.3@us.af.mil">jane.davis.3@us.af.mil</a></b>   |
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